

**DYNAMIC MANAGEMENT OF
AIRCRAFT PART RELIABILITY DATA**

ABSTRACT OF THE DISCLOSURE

A system for recording and analyzing reliability data for an aircraft during a dynamically-planned maintenance check of the aircraft includes means for obtaining and logging warranty-based reliability data from maintenance records generated during the performance of any routine or non-routine tasks that may exist, and which pertain to rotatable parts of the aircraft; means for obtaining and logging maintenance program-based reliability data from maintenance records generated during the performance of any non-routine tasks that may exist; means for identifying for each non-routine task, a routine task whose performance resulted in the generation of the non-routine task; means for obtaining and logging maintenance program-based reliability data from maintenance records generated during the performance of any identified routine tasks that may exist; and means for analyzing and reporting the warranty-based reliability data and the maintenance program-based reliability data.